JAN 3 1 2005

PTO/SB/08A (10-01) Approved for use through 10/31/2002, OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Inder the Paperwork Reduction Act of 1995, necessors are required or respond to a collection of information unless it contains a valid OMB control number

Under	the Paperwork Reduction	n Actor 1995, nagren	sons are required to respond to a collection	THE WINDSHIP OF THE PROPERTY O
Substitute	for form 1449A/PTC	<u> </u>	RADE DE C	Complete if Known
	SUPPLEMEN		Application Number	10/621,071
INFO	RMATION DIS	CLOSURE	Filing Date	July 14, 2003
STA	STATEMENT BY APPLICANT		First Named Inventor	Derek Raybould et al.
			Group Art Unit	1775
(use	as many sheet as	necessary)	Examiner Name	
Sheet	1 of	2	Attorney Docket Number	H0003569-3144

U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Document Number Number – Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear			
QQ.	18	US- 6,149,051	11-21-2000	Pohlman et al.				
90%	19	US- 4,989,773	02-05-1991	Ishiyama				
O'B	20	US- 4,725,509	02-16-1988	Ryan				
70		US-						
		US-						
		US-						
		US-						
		US-						
		US-]					
		US-						
		US-						
		US-						
		US						
		US-						
		US-						
		US-						
		US-						
		US-						

		F	OREIGN PATENT	DOCUMENTS	· .	
		Foreign Patent Document			Pages, Columns, Lines	
Examiner Initials*	Cite No. 1	Country Code ³ 'Number ⁴ Kind Code ⁸ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T⁰
QQ	21	EP 0456481A	11-13-1991	Daido Steel Co. Ltd.		
- Ca	22	JP 2001 212664	04-12-2001	Sumitomo Precision Prod Co Ltd		
ρğ	23	International Search Report	10-28-2004			1
- 00						
	 					
1	I		l	<u> </u>		

	•			
Examiner	1 +0	Date	1 ~ 1	
Signature	Jonath L	Considered	11/8/05	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent documents. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

	a plus sign (+) insi the Paperwork Rec			JA		PTO/SB/08A (10-01) Approved for use through 10/31/2002, OMB 0651-0031 and Trademark Office: U.S. DEPARTMENT OF COMMERCE ion of Information unless it contains a valid OMB control number
Substitute	for form 1449A/	PTO		٩	my (2)	Complete if Known
				۲	Application Number	10/621,071
INFO	RMATION I	DISC	LOSURE		Filing Date	July 14, 2003
STA	TEMENT BY	/ API	PLICANT		First Named Inventor	Derek Raybould et al.
					Group Art Unit	1775
(use	e as many shee	t as n	ecessary)		Examiner Name	
Sheet	2	of	2		Attorney Docket Number	H0003569-3144

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when Appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2			
98	24	ZHUANG, W.D. et al. (Massachusetts Institute of Technology), "Large gap joining of Ti-6A1-4V alloy with mixed powder interlayers", Science and Technology of Welding and Joining 2, (4), 139-148, 1997				
98	25	XU, Q et al. (University of Manitoba), "Diffusion Brazing of a TiA1 alloy", Advanced Brazing and Soldering Technologies, 57-64, International Brazing & Soldering Conference, 2000, XP009038231				

		 	<u> </u>
Examiner	0-1-00	Date	a -
Signature	youar y	Considered	11/8/05

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

plus sign (+) inside this box

PTO/SB/08A (10-01)

Approved for use through 10/31/2002, OMB 0851-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Z 9 ZIU	the Rinerwork Red	duction .	Act of 1995, no per	sons are required to respond to a collection	on of Information unless it contains a valid OMB control number
	form 1449A/			C	Complete if Known
			AL	Applicati n Number	10/621,071
ADEN	SUPPLEMENTAL INFORMATION DISCLOSURE		Filing Dat	July 14, 2003	
	TEMENT BY			First Named Invent r	Derek RAYBOULD et al.
• • • • • • • • • • • • • • • • • • • •				Group Art Unit	
(use	as many shee	et as r	ecessary)	Examiner Name	
Sheet	1	of	1	Attorney Docket Number	H0003569

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when Appropriate), title of the item (book, magazine, journal, serial, symposlum, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т2
(DF)	11	HOFFMAN, "Evaluation of Enhanced Diffusion Bonded Beta Titanium Honeycomb Core Sandwich Panels With Alpha-2 Titanium Aluminide Face Sheets," NASP Technical Memorandum, 1191 p. 1135. no date	ava
* 4	12	CADDEN, "Microstructural Evolution and Mechanical Properties and Braze Joints in TI-13.4 AI-21.2 Nb," Welding Research Supplement, August 1997, pp.316-325s.	
7	13	ONZAWA ET AL., "Brazing of Titanium Using Low-Melting Point Ti-Based Filler Metals," Welding Research Supplement,	
1	14	HUANG ET AL., "Effect of Heat Treatment on the Microstructure of a Metastable .betaTitanium Alloy," Journal of Materials	
1	15	BOTSTEIN ET AL. "Brazing of titanium-based alloys with amorphous 25 wt. % Ti-25 wt. % Zr-50 wt. % Cu filler metal," Materials Science and Engineering, 1994, pp. 305-315.	<u> </u>
VV	16	RABINKIN, "New Applications for Rapidly Solidified Brazing Foils," Welding Journal, October 1989, pp. 39-46.	
88	17	SORENSON, "Titanium Matrix Composites," NASP Contractor Report, 1990 p. 1096.	
			┼-

Examiner Signature	Jonat Q	Date Considered	1/8/05
Signature	X		

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

¹ Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002, OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Index the Panerwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute	Substitute for form 1449A/PTO			Complete if Known		
				Applicati n Number	filed herewith	
INFORMATION DISCLOSURE			LOSURE	Filing Date	filed herewith	
STA	STATEMENT BY APPLICANT		First Named Inventor	Derek Raybould et al.		
			Group Art Unit			
(use as many sheet as necessary)		Examiner Name				
Sheet	1	of	1	Attorney Docket Number	H0003569	

			U.S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
40	1	US- 6,482,537	11-19-2002	Strangman et al.	
- <i>U_iV</i> -	2	US- 6,223,976	05-01-2001	Clement et al.	
	3	US- 6,149,051	11-21-2000	Vollmer et al.	
	4	US- 5,873,703	02-23-1999	Kelly et al.	
	5	US- 5,240,491	08-31-1993	Budinger et al.	
1,	6	US- 5,013,612	05-07-1991	Hunt et al.	
	7	US- 4,897,243	01-30-1990	Mizuhara	
()-(A)	8	US- 4,725,509	02-16-1988	Ryan	
0.81		US-			
		US-	<u> </u>		
		US-	L		
		US-	<u> </u>		
		US-	<u> </u>		
		US-	<u> </u>		
		US-	1)	

	FO	REIGN PATENT	OCUMENTS		
	Foreign Patent Document	Publication Date		Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	т6
Cite No. ¹	Country Code * "Number 4 Kind Code * (if known)		Name of Patentee or Applicant of Cited Document		
9	GB-752,117	07-04-1956	Roger Alden Lang		
10	EP-0456 481 A2	11-13-1991	Daido Takushuko Kabushiki Kaisha		
		· · · · · · · · · · · · · · · · · · ·			┼
					↓
					
				4	
	No. 1	Foreign Patent Document Cite No. 1 Country Code 3 "Number 4 Kind Code" (If known) GB-752,117	Foreign Patent Document Cite No. 1 Country Code 3 -Number 4 Kind Code 3 (if known) Publication Date MM-DD-YYYY 9 GB-752,117 07-04-1956	Cite No. 1 Country Code 3 "Number 4 Kind Code" (il known) Publication Date MM-DD-YYYY MM-DD-YYYY Publication Date MM-DD-YYYY Applicant of Cited Document 9 GB-752,117 07-04-1956 Roger Alden Long	Foreign Patent Document Cite No. 1 Country Code 3 "Number 4 Kind Code 3 (If known) Publication Date MM-DD-YYYY Applicant of Cited Document Passages or Relevant Passages or Relevant Figures Appear

Examiner		7-0		Date	1~1	
Signature	\ *_	rate	•	Considered	11/8/05	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent documents. ⁵Kind of document by the appropriate symbols as indicated on the document under WiPO Standard St.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.